1-1 Practice

Variables and Expressions

Write a verbal expression for each algebraic expression.

1. $23f$

2. 7^3

3. $5m^2 + 2$

4. $4d^3 - 10$

5. $x^3 \cdot y^4$

6. $b^2 - 3c^3$

7. $\dfrac{k^5}{6}$

8. $\dfrac{4n^2}{7}$

Write an algebraic expression for each verbal expression.

9. the difference of 10 and u

10. the sum of 18 and a number

11. the product of 33 and j

12. 74 increased by 3 times y

13. 15 decreased by twice a number

14. 91 more than the square of a number

15. three fourths the square of b

16. two fifths the cube of a number

17. **BOOKS** A used bookstore sells paperback fiction books in excellent condition for $2.50 and in fair condition for $0.50. Write an expression for the cost of buying x excellent-condition paperbacks and f fair-condition paperbacks.

18. **GEOMETRY** The surface area of the side of a right cylinder can be found by multiplying twice the number π by the radius times the height. If a circular cylinder has radius r and height h, write an expression that represents the surface area of its side.